ACTH 9, 28, 36, 49, 51, 90, 104, 151, 189, 233, 284, 299, 395
AEC Test Wells 328
Ablondi, Frank 374
Abraham, B. M. 219
Acetylmethadol 15
Acidosis 66
Ackerman, W. W. 248, 292
Acoustical house 49, 62
Adams, A. T. 355
Adams, John E. 340
Addison's disease 195
Adrenal cortex 286
Aerosols 218
African liver disease 126
Ainslie, J. D. 364
Air Brakes, Airplane 265
Air-Conditioning Auto 393
Air filter 16
Air Improver 48
Air traffic control 178
Airplane, High-Lift 127
Airsickness 236
Ajl, Samuel J. 189
Alarm, Radiation 30
Alcohol, Grain 121
Alcohol-water in fuel 252, 376
Alcoholic 6
Alcoholic fumes 365
Alcoholism 300, 397
Alcometer 144
Alden, R. C. 295
Alexander, S. N. 279, 333
Algae factory 281
Alger, P. L. 325
Allen, Fred H., Jr. 216
Allen, Milton J. 380
Allen, R. L. 358
Allison J35-A-23 198
Allison, James B. 297
Almond Hulls for lambs 216
Alonso, Darwin 390
Altitude 128, 312
Altman, Jacob A. 130
Aluminum, Etching 386
Aluminum gel treatment 38
Aluminum methionate 22
Aluminum oxide 105
Aluminum wire, Better 206
Ambrose, E. R. 70
Amebas 133
Americans 243, 386
Amino acid, New 249
Ancient Murrelet 216
Anderson, Carl D. 293
Anderson, Robert J. 334
Andes fossils 380
Andrade, E. N. da C. 152
Andrus, William DeW. 205
Anemia 290
Angina 40, 172
Angiosperms evolution 204
Another world watching 229
Anslow, Gladys A. 41
Ant trap 272
Antabuse 307
Anthony, Romuald 21
Anti-Perspirant 22
Anti-proton 293
Antibiotics 130, 234, 265, 282
Antihistamines 95, 317, 328
Antimalarial 239
"Antivirotics" 355
Anxiety propaganda 249
Arabian, Karekin G. 217
Arellano, Z. Alejandro P. 106
Arend, S. 104
Army Use of Talents 302
Arons, Isidore 98
Aronson, Lester R. 84
Arsenic 148
Artery hardening 371
Arthritis 104, 231
Artificial hands 103
Asling, C. W. 214
Asphalt road repairer 208
Asteroid 149, 382
Astronomical Union 263
Atom 38
Atom bomb 92, 100, 310, 313, 377, 385, 387
Atomic death belt 261
Atomic energy, Stellar 376
Atomic particle counted 227
Atomic plane engines 169
Atomic Secrets 348
Aureomycin 9, 98
Automatic machine output 66
Autopilot 120, 131
Autret, Marcel 126
Aviation safety 220
Axelrod, Daniel I. 204
Ayers, W. W. 41
Ayres, John C. 355
BAL 172
B 12 234
B-47 refueling 204
Babies' sleep 376
Babies' sore eyes 228
Bacon, two-day 388
Bacteria 30, 101, 121, 232
Bag, Plastic food 59
Bag to Cool Water 296
Bagpipe, Miniature 384
"Bags" Under Eyes 328
Bailey, E. G. 7
Bailey, Edwin 260
Bailey, Warren R. 14
Bain, George W. 261
Bain, W. A. 317
Bakelite 9
Baker, George L. 228
Baker, James G. 5, 185, 339
Bakke, E. Wight 335
Balchen, Bernt 346
Barach, Alvan L. 70
Barbed wire 208
Barber Stool 344
Barker, Seth S. 410
Barnes, Carleton P. 404
Barnett, H. 28
Barnett, Roy Everett 361
Barranca de Cobre Canyon 102
Barrett, Eric 55
Barrett, Paul F. 98
Barry, A. P. 311
Barstow, Jane 231
Bassett, Andrew L. 387
Bateman, Jeanne 36
Bathroom heater 16
Bathtub 136, 336
Batteries 76, 255
Battle Suit 336
Bauer, A. H. 104
Baum, Frank E. 88
Baume, Louis J. 217
Bayhi, Joseph F. 344
Beakers, Stainless Steel 63
Beal, M. D. 258
Beams, J. W. 277
Bear, H. R. 280
Bearden, J. A. 88
Beckwith, W. B. 349
Bedside Control 368
Beecher, Henry K. 2
Bees 248
Beetle, Australian 166
Beidleman, Barkley 46
Beland, Arthur J. 332
Belyea, R. M. 258
Benemid 393
Benson, H. K. 264
Benson, Ralph C. 9
Benton, George S. 201
Bereston, Eugene S. 397
Berg, E. H. 295
Bermudez, Antonio J. 312
Bernstein, Theodore B. 232
Berry, Charles A. 51
Berry, N. O. 50
Beryl colors 264
Bethe, Hans 284
Bettelheim, Bruno 153
Betts, Rome A. 127
Bierman, C. 28
Bierman, Howard R. 69
Bills, Philip H. 376
Binoculars 224
Biological warfare 27, 188, 206, 237, 317
Bird, H. R. 282
Birnbaum, George 34
Bishop, Charles 393
Black shank 104
Blake, Eugene M. 216
Blanket, Electric 21
Blasting substitute 281
Blazer, Noel E. 361
Blender 304
Blindness 410
Blobs 34
Blood 25, 34, 124, 152, 153, 170, 179, 216, 237, 245, 248, 258, 291, 381
Blood pressure 57, 98, 249, 296, 380, 382
Blood vessel bank 205
Blood tests 259
Bloodroot 177, 181, 284
Blount, C. W. 114
Bobbitt, Oliver B. 179
Boe, Finn 151
Boelter, E. D. 270
Bogin, Herman H. 374
Boilers, Diverse-Fuel 232
Bomb, Jet-Propelled 184
Bondley, Ralph J. 231
Bone banks 387
Bone grafts 345
Bonner, C. D. 233
Bookmark 304
Booth, George W. 344
Boring, Maynard M. 361
Bosch, J. K. 390
Boston Museum of Science 214
Bottle opener 258, 304
Bottled Gas fuel 295
Bottles 112, 336
Bowen, Henry D. 291
Bowen, Ira S. 278
Bowman, Karl 317, 340
Boyd, James 248
Bradt, H. L. 54, 194
Brady, Joseph 133, 310
Brain 199, 242, 265
Brain, Electronic 120
Brain operation 278, 340
Brain waves 106
Brainerd, George W. 190
Brannan, Charles F. 108
Breese, Paul L. 351
Brenner, Robert 265
Brewer, John H. 346
Bridge, Aluminum 113, 125
Briney, Robert M. 136
Bronk, Detlev W. 25
Brooks, Reid 135
Brosene, William G., Jr. 98
Brouwer, Dirk 19
Brower, Edna 333
Brown, A. W. A. 151
Brown, G. C. 292, 364
Brown, R. J. S. 30
Brown, Ralph L. 115
Brown, Thomas McP. 373
Brucellosis 130
Brush, Stephen 150

SCIENCE NEWS LETTER

Index—Vol. 59

Nos. 1-26—January to June, 1951

Published by

Science Service, Washington, D. C.

Errata appear on p. 411

Brush 412
Bullen, K. E. 52
Bumblebee 252
Bump, Gardiner 73
Bupp, L. P. 245
Burger, W. Leslie 53
Burgess, Paul S. 6
Burgoyne, F. H. 286
Burk, Dean 99
Burners, Multi-Fuel 217
Burnett, Robert E. 8
Burns 40
Burton, Walter C. C. 136
Bus 32, 272
Bush, Vannevar 366
Buss, Irven O. 246
Butler, C. C. 293
Butler, C. G. 248
Butt, Arthur J. 402
Butterworth, Robert F. 376
Byers, Horace 268
Byron, Ralph 69

CDA home 121
Cable with amplifiers 70
Caecilians 53
Cahow 129, 139
Caldwell, John M. 374
Calf, black 396
Callender, Maurice E. 133
Camera 69, 160, 176, 185, 339, 361
Can opener 376
Cancer 12, 36, 124, 137, 166, 191, 197, 231, 233, 244, 263, 264, 280, 286, 291, 297, 308, 341, 389, 392
Cane, perennial 62
Cans, Drinking water 288
Cap, shaving-cream 400
Capella star 286
Caplan, Paul S. 104
Car parker 288
Carbon dioxide inhaled 310
Carbon monoxide detector 280
Carbon-Silicone compounds 184
Carnauba, Substitute 217
Carpenter, Edwin F. 57
Carpeting, Seamless 310
Carter, Anne C. 38
Carter, J. C. 72
Caruthers, R. S. 70
Cast iron, Ductile 55
Castallo, Mario 387
Castor Oil 319
Catlin, Daniel 182
Cattle feed, Sawdust 231
Ceiling Painter 336
Cell, Rechargeable 360
Centipede 289, 302
Ceramals 319
Cerebral Palsy 357
Cerf, Gustave D. 318
Chambers, Derrell L. 134
Chambers, Guinevere S. 233
Chambers, W. W. 199
Chamois substitute 192
Champagne from capsule 56
Chandler, K. A. 223
Chang, M. C. 250
Chapanis, A. 223
Chapman, Carleton B. 37
Chapman, Oscar 182
Chemical, rare 360
Chess moves 168
Chester, Conrad V. 134
Chestnut trees 108
Childbirth, Painless 88
Chlorine tablets 240
Christian, John E. 22
Cigar, imitation 352
Cigarette cutter 32
Cigarette pocket 200
Cintula, Alois Louis 347
Circuit breakers 225, 238
Cirrhosis of the liver 126
Citrus blackfly 50
Civil defense 357
Clark, E. L. 331
Clark, P. F. 364
Clamp, Power Line 35
Clancy, Carl F. 46
Clark, Lewis N. 258
Clark, Robert L. 7
Clemence, G. M. 19
Clemente, C. D. 199
"Clementine" 405
Clensos, Steven 89
Cliffton, E. E. 291
Cline, Gerald M. 120
Clinical chemists 19
Clock 313, 373, 394
Clopp, Calvin T. 36
Clothes dryer 160
Clothes marker 272
Clothing, Protective 5
Coakley, John D. 66
Coal 115, 316, 329
Cobra embryology 201
Cockroaches 296
Cod liver oil rival 200
Coggeshall, L. T. 359
Cohn, Eva M. 262
Cohen, Jozef 204
Coin and key holder 48
Coke, J. Earl 104
Cold 199, 390
Cole, Sandford S. 381
Colleges acceleration 6
Colloids 402
Color 134, 188, 204, 245
Colostomy 169
Combat, Best age for 68
Comet 104, 114, 119, 133, 278, 310
Comic books 376
Commoner, Barry 329
Communication System 368
Compound F. 3
Compton, Karl T. 8
Computer 131, 333
Conant, James B. 246, 366
Concrete, Vermiculite 152
Condon, Edward U. 76, 110
Condor 401, 406
Confused flour beetle 117
Congenital deformities 259
Conley, Patrick 103
Conn, Jerome W. 195
Consequina 296
Console, D. A. Dale 409
Container 39, 128
Conway, Herbert 395
Cook book 333
Cook, W. R. 157
Cooke, Morris L. 6
Cooke, Theodore F. 264
Cooking lamps, Infrared 112
Cooler-heater unit 400
Cooling mattress 272
Coon, Carleton S. 276
Coon, Nelson 269
Cooper, Charles P. 153
Cooper, D. C. 203
Copy Holder 368
Corcoran, A. C. 370
Corncobs polish 185
Corner, Eugene S. 295
Corona laboratories 371
Corrick, J. A. 307
Corrosion 152, 344
Corticosterone 195
Cortisone 120, 126, 147, 168, 175, 189, 233, 283, 290, 299, 311, 351
Cortisone substitutes 380
Cosmic Rays 54, 194
Costello, Anne C. 328
Cotton 14, 40, 96, 183, 206, 369, 378
Cougher, Mechanical 70
Cowan, James J., III 117
Cowan, John C. 328
Cowdry, E. V. 190
Cowles, Raymond B. 198, 409
Cows 120, 264
Creely, Joseph W. 264
Crops need cultivation 136
Crosbie, Glen 406
Cross transfusion 45
Crow, James F. 247
Crowe, Walter C. 338
Crumpler, H. R. 249
Crysler, C. M. 329
Cullen, Stuart C. 215
Cummisford, Patricia 117
Cunha, R. J. 206
Cunningham, L. E. 114, 119, 133
Curare, Mimicked 409
Currency Counter 78
Curtains, Electrified 192
Curtis, Arthur C. 265
Curtis, Raymond M. 395
Cusano, D. A. 393
Cyanide treatment 206
Cyclotron 117

DDT 51, 184, 247
Dacron 312, 400
Dainton, A. D. 194
Dalton, Albert J. 341
Dams in India 45
Daniels, Farrington 262
Danish, A. 28
Dannenberg, Arthur M., Jr. 175
D'Arcy, Nicholas A., Jr. 313
Datta, R. M. 311
Dauer, Carl C. 23
Davis, Watson 382
Davidson, H. H. 228
Davison, W. C. 377
Dawson, William R. 198
Day, Mrs. L. T. 335
Dearing, W. Palmer 338
Death rate 185, 343
DeBeer, Edwin J. 409
Decker, William H. 217
DeDecker, Carol L. 134
Deep scattering layer 26
Defense 22, 130, 214, 410
Deflection beam 214
Defroster, Spectacle 400
Degler, Howard E. 211
Degreaser, Portable 370
De-icing shingles 288
Delta wing 343
Demkovich, John J. 150
Dennison, John M. 134
Dent, C. E. 249
Dent, Fred R., Jr. 117
Dental fillings 260
Denton, George B. 310
DeShon, H. Jackson 309
Desks 16
D'Esopo, Nicholas D. 322
Dessert 377
Detergent 89
de Terra, Helmut 83
Detwiler, E. B. 238
Deutsch, Martin 302
Devaney, Henry 198
Dialing Device 352
Diamond, Louis K. 34, 216
Diamond needle 112
Diarrhea 72
Dickeson, N. W. 243

Dickie, Margaret M. 195
Dictators 306
Diesel engine 304, 318, 344
Diet 37, 89
Digitoxin, Radioactive 294
Dike, K. C. 280
Dinosaur 30, 46
Disaster research 213
Disease, Airborne 317
Disease, color atlas of 41
Disease Detection 294
Diseases, War 188, 359
Dissecting needle 63
Distemper 295
Doan, Richard L. 361
Doctor Need 399
Dogs 134, 153, 392
Dogwood blight 306
Dolley, Homer O. 120
Dollins, Curtis W. 148
Donata, Giuseppe 252
Dong, Luther 355
Dosimeter 245
Doucet, Bernice M. 297
Dougherty, W. K. 157
Draft 9, 20, 118, 164
205, 211, 235, 246, 344, 366
Drafting board, Portable 352
Dragstedt, Lester R. 392
Drake, Billy B. 2
Dramamine 24
Drift bottles 370
Dripps, Robert 57
Driving 88, 217, 386
Dromoran 83
Drums, Rubber Fabric 293
Drury, M. I. 311
Dry ice 185, 246
Dryden, Hugh L. 298
DuBois, Kenneth 253
Dudley, H. C. 211
Duncan, Garfield G. 46
Dunn, H. K. 23
Duraiswami, P K. 259
Duran-Reynals, F. 291
Dust, Radioactive 92
Durand, William F. 83
Dust storms 28
Dutch elm disease 72
Dutchman's Breeches 220
Du Toit, Charles H. 312

Ear trouble, allergic 398
Earle, W. R. 387
Earrings, Lighted 237
Earth 156, 286, 307
Earthquakes 41, 121, 256
Easlick, Kenneth A. 375
Easter 170
Eastman, N. J. 228
Eble, E. 133
Eckert, W. J. 19
Eclipse 17, 21
Edwards, Berry F. 28
Eggs 79, 396
Egret 14
Einstein, Albert 66, 106, 183
Einstein award 183
Ejection seat 215
Electric light 144, 394
Electronic business system 279
Electronic calculators 216
Electronic inspectors 203
Electroplating 294
Electroshock, Roman 281
Ellarson, R. S. 214
Ellis, Richard B. 397
Elting, J. P. 183
Elvehjem, C. A. 364
Embryo transplantation 250
Emery, Kenneth O. 223
Emley, Edward Frederick 281
Engel, Frank L. 28
Engines, High
Compression 300
Engine warmer 240
Engineer Shortage 70, 361
Engineers, Registry of 7
Englemann, Theodore G. 376
Enzymes 2
Epidemic control laboratory 179
Ericksen, Charles W. 231
Ericson, Harold L. 408
Ernst, Frederick
J., Jr. 161, 162, 174
Errors, Workman's 389
Esvenas, Leif Dedrick 216
Espenschied, Helmut 381
Etherizer 224
Ethionine 292
Ethyl vanillate 357
Evans, F. C. 137
Evans, James A. 40
Evaporator 168
Ewen, Harold I. 405
Ewing, Paul L. 297

Exposure suit 288
Extragalactic nebulae 278
Eye, crystal 119
Eye pad mask 128

FM 60
Faber, Harold K. 355
Fabrics, Fire-Resistant 264
Face mask 96
"Face-Rest" 328
Facsimile 12
Factory economies 232
Fair, Gordon M. 302
Falk, Hans L. 297
Fallopian tubes opened 387
False teeth, Magnetic 182
Fanning, Rachel J. 40
Fantl, Kurt 53
Farm research unit 35
Farmers' Bulletin, Oldest 132
Farnesworth, Dean 169
Farrell, John J. 249
Farrington, J. D. 73
Fast, Edwin 361
Featherstone, Robert M. 215
Feder, Ned 14
Feet, Tired 338
Feick, Rufus D. 374
Feinstein, Bertram 324
Feinstein, J. 95
Feldman, David H. 296
Fellows, Julian R. 329
Ference, George G. 236
Fermi, Enrico 54
Fertility, Asian 148
Fertilizers 334
Feshbach, Seymour 249
Fettes, J. J. 258
Fibers 124, 238
Fieldner, Arno C. 115
Fildes, Paul 28
Fingerprints, Ancient 276
Finletter, Thomas K. 169
Fire alarm device 256, 313
Fire-fighting System 360
Fireflies 406
Firehammer, B. D. 8
Fires, Mysterious 265
First aid, Mental 53, 374
Fischer, Conrad S. 294
Fischer, Robert G. 296, 364
Fish, Jumping 84
Fish finder, Midget 153
Fisher, Lloyd W. 56
Fisher, Philip Andrew 281
Fisher, Rhoda 83
Fisher, Seymour 83
Fishman, W. H. 233
Fission products, uses 184
Fitzsimmons, Paul 102
Flach, Richard W. 215
Flashlight 176, 192, 336
Fleas 137
Fleas, Water 126
Fleischer, Walter E. 395
Fleming, Arthur S. 118
Fleming R. 300
Flemming, Arthur B. 164
Fletcher, John P. 131
Fletcher, Joseph C. 223
Fletcher, Stuart L. 120
Fleure, H. J. 237
Flight Simulators 360
Floating Islands, Arctic 223
Floor-plan kit 96
Floor wax, Anti-slip 208
Flory, L. E. 35, 200, 323
Flowers, Artificial 176
Fluoridation 310
Fluorides 325
Fluorine 264
Fluorine test 243
Flying-Boat, Jet 27
Flying laboratory 151
Flying printing press 309
Flying saucers 229
Flying Suit, Heated 267
Foley, Patrick F. 393
Folsom, R. G. 356
Folsom Man, Antiquity 8
Fontaine, Thomas 147
Food plants, Unusual 253
Food plate 208
Food processing 197, 374
Foot treatment device 412
Foote, R. D. 87
Ford, H. B. 344
Forecast 1951 10
Forest fires 147
Forrestal Center 55
Fossils heat treatment 261
Foulger, John H. 373
Fowden, W. M. M., Jr. 295
Fowler, William 338
Fowler, P. H. 194

Fracture table 96
Fractures 67
Frampton, Vernon L. 206
Francis, Howard T. 152
Francis, T., Jr. 364
Frangialli, Filippo 56
Frankel, Jack 355
Frankfurter corer 320
Fraser, Havelock 15
Freeman, John W. 98
Freeman, Joseph 351
Freeman, R. B. 137
Freeman, Walter 278
Frerichs, Rudolf 119
Friedel, R. A. 136
Frieman, Edward 284
Fright and hatred 94
Fritz, Milo H. 290
Frogs 338
Frohn, Adolph 165
Frostbite 72, 397
Frozen waffles 272
Fruit 135, 228
Fuels 331
Fulton, John 281
Fulton, John F. 263
Fulton, R. A. 218
Fumagillin 133
Fundamental education 184
Fungicides, electrified 291
Fungus 203
Fur substitute 117, 118
Furacin 231
Futral, J. G. 358

G-String antenna mast 233
Gaffield, Eli W. 237
Gaibar Puertas, C. 307
Galaxies 13
Gallium 211
Gamble, Joseph E. 137
Game birds 73
Gamow, George 101
Gangrene 281, 374
Garage door control 16
Gardening 269, 393
Garment, Air-conditioned 121
Garrison, W. M. 214
Gartlein, C. W. 329
Gas, Radioactive 89
Gas meter register 412
Gas turbine 20, 44, 69
Gass, Bernhard J. 89
Gaton, W. 28
Gazin, C. Lewis 101, 345
Geese 253
Geiger counter 41, 48
Generator 81, 93
Gerber, L. 66
Geriatrics 376
Gerlough, Daniel L. 213
Germanium 25
Gershon-Cohen, Jacob 389
Geschickter, Charles F. 41
Geysers 252, 258
Gibbons, Thomas 37
Gilmore, Forrest E. 295
Gilruth, Robert R. 342
Ginkgo 206
Ginsberg, Milton 156
Glaser, E. M. 152
Glass 231, 364, 365, 397
Glasses, Colored 115
Glaucoma 216
Glenn, Frank 205
Glide-Stop device 48
Glutamic acid 233
Goddard, G. W. 54
Godel, Kurt 183
Goldberg, G. M. 184
Goldberg, L. J. 317
Goldfein, Sam 297
Goldman, Leonard B. 280
Goldmark, Peter C. 168
Goldschmidt, Ernst E. 182
Golf ball washer 176
Goodhue, Lyle D. 218
Goodman, B. B. 71
Goodman, Raymond D. 124
Goodwin, L. G. 239
Goose-quill writing set 144
Goubau, Georg 233
Gout 393
Graber, Robert P. 3
Graham, Ruth 297
Gramlich, Francis W. 306
Grass 360
Grass-cutting sickle 384
"Grasshopper" 230
Grasshoppers 50, 328
Graumann, Raymond L. 184
Gravatt, G. Flippo 108
Green, Mrs. C. Dubnik 341
Green, George G. 12
Green, H. 191
Greenberg, Leon A. 365
Greene, Harry S. N. 251

Greene, Leon 199
Grewe, Rudolf 83
Grief of aged 313
Griggs, W. H. 136
Grondal, Bror 243
Groseclose, Frank F. 249
Gross, E. G. 215
Groupe, Vincent 355
Growth speeded 206, 234, 282
Guards, Metal 63
Gudger, E. W. 233
Guggenheim, Harry F. 220
Gulf stream eddy 351
Gunn, E. L. 292
Gyroscope speed 248

Haas, Victor H. 206
Haddock, Fred T. 21
Hadley, B. 380
Hagen, John P. 21
Haircut device 130, 160
Hakkarinen, William 230
Hall, Harlow H. 206
Hall, John S. 323, 382
Hall, Lawrence B. 40
Hall, William F. 296
Halvorson, H. Orin 30, 101
Hamilton, Charles 24
Hamilton, J. G. 214
Hanan, Robert 44
Handle, Window 80
Hanna, Clinton R. 131
Hansen, John 292
Hansens, Elton J. 105
Hanson, Earl Parker 72
Hanson, F. R. 133
Haro, G. 179
Harris, H. 249
Harris, Robert S. 253
Harris, Robert W. 262
Harrison, Henry T., Jr. 306
Harrison, H. T. 349
Hart, Hornell 343
Harter, Johns S. 332
Hats, Crocheted 288
Haugen, Arnold O. 360
Hauser, Ernst A. 402
Haviland, Robert P. 338
Hawkins, Mary O'Neil 137
Hay fever 232
Head cover, Plastic 224
Health laboratories 120
Heard, Gerald 229
Hearing 37
Heart 90, 294, 296
Heart patients 127
Heart research grant 402
Heart sound meter 373
Heat pump 70
Heater 80, 192, 361
Hedges, Trimble R. 14
Heggie, V. 300
Heimerl, George J. 98
Helicopter 60, 109, 135,
143, 345
Helium frozen 219
Helmet, Safety 80
Helmsman, Electric 295
Helper, Helen N. 51
Henderson, S. T. 247
Henle, Gertrude 386
Henle, Werner 386
Henriques, F. C., Jr. 95
Henschel, Austin 37
Hepatica 174
Herdrich, Frank 198
Hering, E. T. 386
Hermanson, William A. 124
Hermit crab 190
Herod's palace 273, 275
Hersey, J. B. 26
Hershey, Lewis B. 9, 118,
164, 205
Hertz, Roy 380
Hervey, George W. 34
Hess, Dennis E. 284
Heusler, Karl 283
Hickman, Clarence N. 184
Highway telephones 67
Hildebrand, W. F. 243
Hill, Justina H. 228
Hilsch, Rudolf 217
Hinge, Permanent 400
Hitchcock, Harold B. 24
Hoag, Arthur A. 323, 382
Hoagland, Robert J. 9
Hodgkins, C. R. 292
Hofmann, Klaus 360
Hogue, Lawrence J. 231
Hogue, Mary Jane 199
Holloway, J. K. 166
Holm, L. W. 120
Holtermann, Hugo 151
Homburger, Freddy 233
Home gardens 108, 186
Homing device 132
Honey refractometer 256

Hoobler, Sibley W. 296
Hormone 14, 147, 284
Horn harmonica 112
Hornbeek, R. D. 270
Horsetails 157
Hot cell 38, 67
Hougas, R. W. 300
Houghton, Henry G. 304
House wrens 214
Household glove 256
Howard, Walter E. 147
Howerton, Paul W. 216
Howerton, Robert J. 216
Howlett, Kirby S., Jr. 322
Hrostowski, H. J. 245
Hudson, Herbert E. 266
Hueper, W. C. 264
Huff, Floyd A. 256
Huffaker, C. B. 186
Hulst, H. C. van de 405
Hult, A. E. 201
Human Values 335
Humason, Milton L. 403
Hume, Edgar Erskine 105
Humidity 32, 80, 256
Hummeler, Klaus 386
Humphreys, George H., II
206
Hundley, James M. 377
Hungate, Robert E. 231
Hunsaker, Jerome C. 298
Hunt, William A. 244
Huntoon, R. D. 371
Hurlbut, F. C. 356
Huskey, Harry D. 129
Hutchinson, F. W. 56
Huxley, Donald B. 117
Hyaluronidase 88
Hyatt, George W. 345, 387
Hyde, Robert W. 309
Hydrazine 332
Hydrofin 320
H-bomb 367
Hydrogen Showers 329

Ice Age mammals 101
Icebergs 230, 305, 311
Igniter, Electric 316
Illiterates 13, 244
Imitation aids diagnosis 61
Impregnation 340
Indigo Bunting 316
Induction apparatus 16, 77
Inert gases 309
Infantile paralysis 42, 291,
355, 364, 391
Infectious hepatitis 386
Influenza 23, 44, 56,
57, 61, 248, 338
Infra-red generator 86
Ingalls, Ann M. 195
Ingersoll, Alfred C. 313
Ingleby, Helen 309
Injections, Salt 324
Ink, Metallic 128
Inn, Edward C. Y. 341
Insects 117, 151, 377
Insecticides 7, 105, 124,
159, 247
Intelligence demands 153
Iodine, Radioactive 214
Iron 185
Iron cord guide 112
Iron, magnetic electric 341
Iron oxide coating 147
Ironing board covers 160
Isbell, Harris 15
Iselin, Columbus O'D. 351
Ives, Ronald L. 297
Ivy, A. C. 290
Ivy, H. K. 290

Jacket, Howard S. 247
Jackman, Abraham I. 310
Jackson, Kenneth W. 390
Jacobs, John E. 119
Jacobs, M. H. 259
Jacobsen, Carlyle 263
Jacobson, Leon O. 25, 254, 402
Janis, Irving L. 249
Jehle, R. A. 306
Jellison, William L. 25
Jenkins, Anna E. 306
Jenkins, Glenn L. 22
Jenkins, J. A. 249
Jensen, P. G. 209
Jernstedt, George W. 294
Jerome, Charles W. 247
Jervis, George A. 364
Jessop, W. J. E. 311
Jessup, Claude 281
Jet engines 72, 198, 298,
353, 358, 391
Jet planes 121, 345, 382
Jewelry, cleaner 368
Jewett, Stanley G. 216
Johnson, B. Connor 282

Johnson, Donald Bruce 150
Johnson, Edwin P. 251
Johnson, Lyndon B. 20
Johnson, William R. 236
Jones, Henry A. 108, 187
Jones, Lewis Webster 6
Jones, R. Clark 204
Jones, Robert E. 3
Jones-Burdick, William 166
Joost, Emil C. 365
Jordan, Raymond E. 398
Jordanoff, Assen 73
Jorris, Thayer 338
Joseph, H. M. 78
Joy, Barabara Evelyn 326
Joy, J. E. 77

Kabat, Cyril 246
Kahl, W. E. 70
Kaliss, Nathan 137
Kaiser, M. 290
Kamen, Martin D. 189
Kapitza, Peter L. 252
Kaprun 358
Karnosh, L. J. 242
Katz, Alfred 147
Katz, Amron H. 36
Katz, Kermit H. 172
Kay, Wallace G. 159
Keane, K. W. 262
Keefer, Edward B. C. 205
Keg, Chemical 176
Keighley, Geoffrey 41
Keilen, J. J. 157
Kelley, Floyd C. 231
Kelley, Wilfred D. 102
Kellogg, Helen Louise 88
Kelly, Arthur Louis 377
Kelner, Albert 244
Kendall, Forest E. 371
Kennard, Harrison E. 339
Kent, D. W. 194
Kerr, Douglas W. 91
Kersten, Harold J. 98
Kesel, Robert G. 91
Kesselring, K. A. 169
Khellin 172
Kidney, Artificial 35
Kidney stones 38
Kiefer, Norman 237
Kilday, Paul 246
Killough, John H. 130
King, H. K. 31
King, William E. 206
Kinsey volunteers 238
Kinsfruit 396
Kintner, Charles J. 296
Kirsch, M. 24
Kit pocket 112
Kitchen, Delmas K. 265
Klamath weed 166
Kleitman, Nathaniel 376
Klopp, C. 28
Klug, Charles W. 280
Knowles, P. F. 319
Kochi, Mutsuyuki 355
Koehn, Carl J. 343
Koenig, Lawrence S. 223
Kofsky, Irving J. 351
Kohls, Glen M. 25
Kolenkow, Robert J. 161, 162, 174
Koller, Gottfried 338
Koller, L. R. 393
Koppen, Otto C. 127
Koprowski, Hilary 364
Kosower, Edward, M. 360
Kotschevar, Lendal 307
Kowatsch, Ferdinand 200
Kresak, L. 278, 310
Kreuz, F. P. 345, 387
Kriegsmann, Kurt 211
Kroft, Herbert M. 340
Krueger, A. P. 317
Kruger 60 B. 115
Kryder, S. J. 34
Kuiper, Gerard 227, 286, 409
Kulp, John F. 228

La Tart, L. J. 56
Laboratories, College 141
Laboratory farm 61
Ladd, John G. 410
Ladder base 224
Lade, James H. 172
Lady-Beetle 366
Lady's Slipper 236
Laing, W. I. 264
Lamb, Anthony H. 313
Lambs, Diet of 216
Lamprey 169
Land, Edwin H. 165
Landis, Carney 328
Landsteiner, Karl 248
Langmuir, Alexander 237, 317
Langmuir, Irving 116, 306
Languages, South Amer. 39
Lanman, Jonathan T. 69
Lantern, Gasoline 240
Larson, David C. 117
Larson, Louis L. 312
Lash, E. I. 270
Lathrop, E. C. 153
Lauer, A. R. 115
Lauffer, Max A. 165
Law, L. W. 303
Law, International 268
Lawlis, John F. 133
Lawn sprinkler 160
Lawson, R. R. 34
Lazarus, Richard S. 231
Lazier, Wilbur A. 265
Lead covering 148
Lead poisoning 347
Leak detector 240
Leather 238
Leavening 117
Lechevalier, Hubert A. 46
Lechevalier, Mary P. 355
LeClair, Titus G. 70
Lee, Robert S. 295
Leet, Don L. 72
Leiff, W. R. 317
Leighton, Robert B. 293
Lemon, Henry M. 201
Lens, Close-up 211
Lens cleaner 160
Lens-mirror 5
Leopard, Black 245
Lepper, George R. 393
Lerner, I. M. 79
Lester, David 365
Lettering device 144
Lettuce 297
Leukemia 69, 303
Levin, Louis 284
Levine, Philip 179, 248
Levine, S. 28
Lewis, A. E. 124
Lewis, Arthur J. 328
Lewis, Robert B. 397
Libby, Willard F. 8, 276
Liddel, Urner 229
Life buoy 320
Life preserver 366
Lifeboat, Radio-guided 200
Light tester 307
Lighted cigarette vendor 371
Lighting unit 368
Lightning 73, 404
Lignin 157, 243
Lignite for wax 102
Lillie, Robert J. 282
Linear accelerator 115
Linsenmeyer, J. Z. 73
Lint, Kenton 406
Lipin, Raymond J. 156
Lippincott, Sarah Lee 115
Lipman, Fritz 312
Liquid oxygen 252
Liquid ozone fuel 242
Lock, Automatic 393
Lockie, L. Maxwell 393
Locksneiser, Sir Ben 232
Lof, George O. G. 54
Lofgreen, G. P. 152
Logan, Joseph A. 376
Long, Perrin H. 156, 391
Long, R. A. 280
Lorber, Victor 402
Lord, Jere W., Jr. 205
Lord, Mary P. 8
Loughborough, William K. 216
Loughin, P. R. 232
Lowell, Percival D. 230
Lu, F. C. 296
Lubricants, Fireproof 254
Lubrication, Sand in 313
Lucas, Robert A. 360
Luggage carrier 16
Lung edema 137
Luomala, Katharine 379
Lurie, Max B. 175

McCabe, R. A. 214
MacCallum, Alan M. 312
McCowen, Max C. 133
McCown, Donald E. 132
McCuen, Charles L. 300
McCulloch, W. C. 316
McCullough, Timothy P. 21
McDermott, W. 130
McDonald, Willard F. 182
McElroy, William D. 406
McGrath, Earl 6, 246
MacGregor, Douglas 335
McIntyre, T. J. 358
McKeen, John E. 200
MacKinney, G. 249
McLamore, W. M. 283
McLean, Franklin C. 402
McLean, John M. 233
McMeekin, Thomas L. 238
McMillen, John Milton 216
McNamara, H. 28
McVay, Leon V., Jr. 281
MacVicar, D. G., Jr. 261
Machine, Dictation 400
Machta, Lester 89
Mack, Pauline Beery 89
Magee, D. F. 290
Mager, Eric L. 247
Magill, Gordon B. 130
Magnesium 281
Magnesium alloys 214, 312
Magnet 325, 345
Magnetic logging device 280
Magnifying glass 192
Mahoney, John F. 265
Mailliard, J. W., Jr. 87
Malayan tree shrew 168
Mallina, Rudolph F. 184
Manganese 39
Mapping of battlegrounds 34
Marans, N. S. 184
Marchant, Ira A. 251
Margolis, H. M. 104
Margolis, Lester H. 340
Mariella, Raymond P. 232
Marigold, Glitters 254
Marine life as food 264
Markowitz, William 149, 335
Marrangoni, A. G. 345
Martin, Mary Helen 150, 326
Martin, Samuel P. 28
Marx, Henry S. 338
Maslach, G. J. 356
Maslow, A. H. 238
Mason, J. Alden 39
Mathers, James A. L. 371
Maxwell, Allan 114
Maxwell, Charles 102
Maycock, W. d'A. 237
Mayer, Cornell H. 21
Mazet, Robert, Jr. 103
Measurements, Aerial 36
Measurements Laboratory 53
Meat, Mexican canned 30
Meat preservation 355
Medical School support 324
Medical stethoscope 256
Medicine, Indian 8
Medullary pins 67
Meerlo, Joost, A. M. 140
Meiling, Richard L. 399
Meinke, W. Wayne 310
Melanism 245, 396
Melaven, A. D. 333
Melville, K. I. 296
Mendoza, Rhea 117, 150, 162
Menehune 379
Menninger, William C. 366
Mental disorder 66, 317
Mental Hospital Aides 361
Mental recovery 319
Mental symptoms 309
Menticide 140
Mercer, Frank 329
Merchant, William R. 373
Merino 87
Merrill, John P. 35
Merry-Go-Round 304
Mesh, Theodore J. 376
Metal alloys, New 217
Metal, Expanded 412
Metals protection 313
Metcalf, R. I. 51
Meteors, Indoor shower 260
Methadone 2
Methane 56
Meulendyke, Edmund 386
Microscope, TV 33, 35, 323
Mikesell, Alfred H. 323
Milk Gel for Burns 395
Milk made safe 121
Milk protein fibers 238
Miller, Joseph M. 156, 391
Miller, Lowell S. 53
Miller, Max O. 69
Miller, Peter 326
Miller, R. O. 391
Miller, Ralph A. 228
Mills, D. L. 56
Milzer, Albert 364
Miner, Nancy 200
Mineral, New 213
Mineral Prospecting 294
Minerals for livestock 120
Miners' Lamps Replaced 329
Mines tested 162
Mink color inheritance 126
Minor planets 362
Mirages 297
Missile, Anti-missile 214
Missile shadowgraph 193, 205
Mitchell, S. Q. 199
Mitosis 191
"Mobile Bar" 352
Mobile radio probes 159
Moeller, Hugo 253
Mohamed, Abdel Fattah 265
Molasses 135, 349
Molybdenum 280
Moniz, Egas 263
Monorail sytem 57
Moon 52, 409
Moon, Artificial 178
Moore, H. B. 26
Moore, Henry 311
Moore, Hilary B. 197
Moose 284
Morant, R. B. 223
Morgan, J. M. 35
Morphine, Synthetic 83
Morris, Harold P. 341
Morris, Samuel B. 6
Morrison, D. C. 214
Morrison, Peter R. 199
Mortality, Maternal 41
Moruzzi, G. 124
Moser, Helen A. 328
Mosettig, Erich 147
Mosher, Anne L. 232
Mosquito bites 372
Motorcycle cover 384
Motz, Lloyd 284
Mount Mihara 278
Mountain climbing 134
Mountain Laurel 332, 410
Mourant, A. E. 237
Mourning Doves 360
Mowbray, Louis L. 139
Mukherjee, Bibhuti 264
Mulay, Ambadas S. 286
Muller, Theodor 399
Multiple sclerosis 242
Multiplex, Errorless 188
Mumps 52
Murdoch, Joseph 194
Murphey, Wallace B. 205
Murphy, Robert Cushman 139
Murphy, Walter T. 12
Murray, Irwin M. 216
Muschenheim, C. 130
Music therapy 12
Musical pitch, Standard 248
Myasthenia gravis 253
Myer, Roland K. 246
Myers, Jack E. 281
Myers, William J. 88
Myocardone 296

NP cases 244, 308
Naffziger, T. R. 153
Nail, Virginia McK. 195, 406
Namias, Jerome 50
Nash, C. Stewart 37
Natchez man 241, 243
Natl. Acad. of Sciences 277
National Science Fair 326
Natl. Science Foundation 181
Needle, Easy-threading 352
Nelson, Oscar A. 325
Nelson, Walter K. 381
Neomycin 46
Nerad, Anthony 343
Nerve gas 2, 262
Net harness 230
Neter, Erwin 72
Neubeck, Clifford E. 2
Niblo, Grady 307
Nickel 264
Niedziela, Beverly 216
Night driving 115
Nitrate 1, 12
Nitrogen mustard 370
Noble, Douglas 308
Norcross, Bernard M. 393
Norlander, Birger W. 8
North Pole 346
Norton, Thomas W. 364
Nossen, E. S. 39
Nothman, Martin M. 52
Nourishment 361
Nova 179
Nowinski, Wiktor W. 307
Nuclear reactor 311
Nude parents 137
Nungester, Walter J. 390
Nut gatherer 144
Nylon 16, 73, 88
Nyrop, D. W. 178
Nystagmus 8

Oberhelman, Harry A. 392
Obesity 195, 377
Oceanography Institute 265
Ode, W. H. 102
O'Donnell, H. J. 102
O'Donnell, J. J. 6
O'Donovan, D. K. 311
Offenhauer, Charles M. 55
O'Hara, Dolores 325
Oil 166, 280, 323
Oil eye 412
Oil Quench 355
Oiling comb 144
Oils, iron in 292
Old, William E., Jr. 178
Old age medicines 189
Old age problems 190
Oldest American 243
Olds, Leland 6
Oleander 60
O'Leary, Paul A. 265
Olmsted, Elizabeth P. 119
Olmsted, Elizabeth W. 119
O'Malley, E. 300
Onions 290
Onions, Hybrid 108, 187
Opium, U. S. Independence 83
Oppenheimer, Robert 183
Opsahl, A. M. 73
Optical kit 320
Orchin, Milton 136
Ores, Brazilian 245
Organosiloxanes 184
Orion 215
Osborn, Ralph C. 120
Osborne, D. W. 219
Osher, Harold L. 172
Osvar, Irving 283
Oswald, Victor A., Jr. 120
Outboard motor 224
Oxygen for airsickness 236
Oysters 153
Ozone, Hydrogen-free 270

PAS 322
Pacific studies 138
Packaging 304
Page, Irvine H. 370
Page, Thornton 411
Paint 88, 95, 304, 319, 328
Paint brush 128
Paint peeler, Electric 112
Paints 88, 328
Pajdusakova, Ludmilla 104
Panama archaeology 359
Panama fossils 345
Panel heating 56
Papworth, W. A. 203
Parachute, Cotton 279
Paralysis, Spinal 55, 199
Parfentjev, I. A. 291
Park, D. Davis 24
Parks, B. C. 102
Parpart, A. K. 35
Parvin, Marjorie 218
Pass, M. K. 370
Passonneau, Janet 14
Patents 409
Patterson, D. G. 238
Patton, Harry D. 137
Paul, Henry E. 231
Pauling, Linus 66, 258
Paulson, Donald L. 329
Pauly, Frank R. 68
Pawley, Ralph E. 51
Payne, Elmer C. 247
Payne, W. J. A. 264
Pearce, Franklin L. 345
Pearce, M. L. 124
Pedersen, L. E. 70
Peel, Roy V. 389
Pegmatite 9
Pelipetz, M. G. 331
Penicillin 31, 228, 265
Penicillin, Synthetic 239
Perception of up 223
Perch, Rolling 89
Perfect attendance bad 280
Periodic table 80
Permafils 8
Personality 83, 104
Perspiration, Synthetic 406
Pests, Forest 71
Peters, Bernard 54, 194
Petrie, R. M. 306
Petroleum 84, 312, 316, 361, 375
Petterssen, Sverre 306
Pheasants 246
Phipard, Esther 361
Phleger, Fred B. 375
Phosphate minerals 194
Phosphate rock mine 23
Phosphors, Improved 247
Photo-Copier, Portable 48
Photographic equipment 224
Photographic process 109
Photographs 54, 55, 57 159
Photosynthesis 97, 99, 189
Physical constants 88
Physiological age 216
Piasecki, Frank N. 345
Picard, Robert G. 77
Piccioni, M. 124
Pick, Lewis A. 34
Picture Frames 368
Pictures, fog-free 109
Piepan, Nonspill 176
Pigeons 24, 258
Pillow, Inflatable 48
Pillow tank 93
Pincus, Gregory 250

Pioch, R. P. 184
Pipefish 134
Piston-jet engine 281
Pittinger, Charles 215
Pitzer, Kenneth Sanborn 185
Plane, Amphibian 44
Planet Paths 19
Planetarium 260
Plants 204, 311, 409
Plasma administration 259
Plasma substitutes 102, 105
Plastics 72, 114
Platform, Adjustable 272
Playhouse 412
Plug-in Strip 352
Plumbing codes, Old 227
Plywood 399
Poison Ivy 390
Poisoning, Food 348
Pollen 40, 96, 136, 232, 251
Pollock, W. T. 223
Poppen, James L. 40
Population 28
Porpoise, Trained 165
Porter, J. C. 252
Positron 302
Post, Richard F. 227
Postcards, Plastic 114
Potassium 55
Potato, Disease-resistant 166
Potato rack 32
Potatoes 203
Potter, A. A. 329
Poultry 410
Powell, C. F. 194
Powell, H. M. 309
Power from Snow 358
Power needs forecast 136
Power transmission belt 176
Powersaw sharpener 16
Practice arm 240
Prados, Miguel 313
Pramer, David 90
Precipitators, electrostatic 392
Pregnancy test 9
Preparedness Lack 386
Pressure cooking 63
Price, Douglas B. 308
Prickly heat 51
Prideaux, G. F. 329
Pritchard, James B. 275
Processed tallow 236
Procter award 8
Profile system 396
Project show, STS 172
Projector, Portable 384
Propeller 83, 167, 233
Prospecting, Electrical 263
Protein 41, 263
Protein, Use of 152
Proton exchange 279
Protoveratrine 296
Proximity fuse, Sonic 25
Psychiatric Treatment 390
Pugh, Lamont 41
Pugh, Leonora 355
Pump, Clothesline 320
Purcell, E. M. 403
Pussy willow 141
Putnam, G. L. 270

Quantum Theory 66
Quigley, T. B. 339
Quinn, Brigid 311

RDX explosive 21
Raab, Richard J. 376
Rabinowitch, Eugene 94, 348
Rabbi, A. 124
Rabbits 200
Rocket 343
Radar 76, 199, 257, 268, 349, 372
Radiation detection 80, 101, 128
Radiation protection 15, 402
Radiation sickness 98
Radioactive breath 269
Radioactive materials 312
Radioactive soil test 105
Radio bomb 230
Radio transmitter, tiny 375
Radiocarbon dating 56
Radio freq. vulcanizing 126
Radio telescope 133
Rahmel, Henry A. 322
Rain 116
Rainmaking 182, 269, 306, 341
Raitt, Russell 138
Raivoka, E. N. 264
Ramsey, Walter H. 295
Ranby, P. W. 247
Rands, Robert 359
Range, gas 336
Ranson, Stanley L. 189
Ranson, Stephen W. 374
Rappleyea, George W. 135
Rasmussen, A. F., Jr. 364
Rats 297, 399
Rattner, Herbert 265
Rauscher, C. R. 309
Rautman, Arthur L. 333
Raw egg coating 88
Ray, Harry S. 181
Razor Blades, Glass 365
Razor 63, 249
Reapportionment 22
Reber, Grote 21
Red Tide 114
Registration of scientists 50
Reid, D. 28
Rein, Charles R. 265
Reinhard, Walter J. 310
Reinhardt, J. F. 136
Reinmuth, Karl 362
Remora 77
Renn, Charles E. 126
Renne, Roland R. 6
Renold, Albert E. 339
Respirators, Wooden 120
Resuscitation device 131
Revelle, Roger 27, 158, 223
Rhenium 333
Rheumatic fever 51, 169, 373
Rhodesgrass scale 41
Richards, Edmund A. 326
Richards, H. G. 24
Richards, Horace G. 243
Richter, Richard B. 253
Ridenour, Louis N. 5
Rider, J. Alfred 253
Rieman, G. H. 203
Rifle-Shotgun 205
Rignaux, F. 104
Ringworm, scalp 397
Rinkel, Max 309
Rondometer 217
Roberts, H. Radcliffe 243
Roberts, Walter Orr 196
Robin, Norman 73
Robinson, Lucile B. 373
Roby, C. 28
Rochester, G. D. 293
Rockett, J. 184
Rockets 134, 338
Rock Faults 134
Rod, Balance 336
Rodert, Lewis A. 121
Rogers, Joslyn W. 131
Rollo, I. M. 239
Roos, William J. 392
Roscoe, Stanley N. 270
Rose, Ira W. 395
Rosenberg, Anna M. 164
Rosenthal, Milton 297
Rosh, Rieva 12
Rossby, C-G. 351
Roth, Louis 372
Roudebush, Marion E. 308
Rowe, Lancelot W. 381
Rubber 40, 157
Rubber, Synthetic 217, 240
Ruben, Samuel 360
Rudolph, Carl J. 24
Ruhle, James 24
Runners for baby carriage 144
Rupp, Walter H. 246
Rusch, Harold P. 124
Russell, Robert P. 246
Russia's minerals 114
Russian translator 120
Rust preventive 147
Ryschkewitsch, E. 105
Ryser, Fred 199

STS Examination 74
STS Winners 86, 117, 134, 145, 149, 150, 162
Sacks, Jerome G. 374
Safety 344
Safety harness 160
Safety program 169
Sagebrush 248
de St. Groth, S. Fauckas 57
Sakoda, James 238
Sailer, R. I. 13, 349
Salt, vitamin-coated 297
Salvesen, Sighjorn 151
Sanborn, Richard C. 14
Sand grains, Artificial 313
Sandlie, Bernhart P. 249
Sanford, A. C. 203
Sato, Yoshio 147
Savigear, M. 191
Sawin, Paul B. 200
Sawyer, William H. Jr. 56
Scents by television 118
Schaaf, S. A. 356
Schaefer, Vincent 182
Schaerer, August A. 217
Schechmeister, I. L. 317
Scheele, Leonard A. 22, 308
Schell, Irving I. 311
Schmidhofer, Ernest 311
Schmidt, Paul L. 147
Schneidermann, Howard A. 14
Schoch, Arthur G. 265
School credit for service 219
School desk tops 384
Schott, L. O. 23
Schreider, F. D. 213
Schroeder, Henry A. 382
Schroeder, H. G. 104
Schuck, Hugo 120
Schulman, Sidney 253
Schumacher, Leon B. 152
Schwab, Robert S. 106
Schwartz, T. B. 28
Schwarz, Klaus 283
Schwarzchild, Martin 402
Schwenk, Erwin 197
Schwinger, Julian 183
Schwippert, Harry 12
Science Council Award 382
Science, Basic 154
Science fairs 246
Science Talent Institute 162
Science Talent Search 85
Scientists, Dilemma of 5
Scott, Allen B. 245
Scott, J. P. 153
Scott, K. G. 214
Screen, All-plastic 96
Screens, Window 400
Screw to lengthen leg 73
Sea lions 377
Sea water 201, 350
Seal, Hawaiian monk 351
Searle, Merton A. 297
Seaweed Chemicals 290
Security clearances 123
Seder, Leonard A. 232
Seed corn maggot 98
Seed Planting 358
Seeds, Viability 180
Seesaw for one 181
Seevers, M. H. 95
Seghetti, Lee 8
Seitz, Phillip F. Durham 24
Seldon, Mark Robert 265
Sellards, E. H. 8
Selvig, W. A. 102
Sen, Hari K. 95
Sewing accessory 256
Shaffer, Loren W. 265
Shapiro, Harry H. 201
Shapley, H. 13, 195, 370, 406
Shark bite 233
Shedlovsky, Theodore 279
Sheehan, John C. 239
Sheep 8, 120
Shelanski, Herman A. 102
Shepard, Francis P. 88, 375
Sherman, Nevin 133, 310
Sherwood, Lloyd V. 56
Shiren, Norman 227
Shisler, Karl 323
Shoe, Ring-Cleat Football 192
Shoes, Try-on 96
Shorr, C. A. 310
Shorr, Ephraim 38
Shrimp 38
Shumway, Clare N. 72
Sieffert, Paul L. 134
Siegel, Jack M. 189
Siegmund, O. H. 4
Sigel, M. Michael 386
Silica test 280
Silicone polish 112
Silverberg, Rosalie J. 355
Silverfish 92
Silverstein, A. 242
Simmons, Fred C. 167
Simon, Alexander 340
Simon, F. E. 376
Simpson, Robert E. 117
Simunek, Josef Jan 168
Simunek, Josef Karel 168
Singh, B. P. 377
Sjoerdsma, A. 294
Skewers 67
Skiba, Paul 292
Skin 24
Skinner, B. F. 258
Skis, Airplane 9
Skunk cabbage 110
Skylights, Domed 272
Sleep inducer 311
Slichter, Louis B. 156, 265
Slicing Machine 304
Slick, Tom Jr. 250
Slingshot, Arrow-shooting 208
Sloanaker, Russell M. 21
Sloth 26
Small, Lyndon F. 83
Smallpox 56
Smillie, Wilson G. 294
Smith, Clarence C. 361
Smith, Clarence E. 8
Smith, Curtis A. 392
Smith, F. G. Walton 197
Smith, Hugh 67
Smith, Paul E., Jr. 373
Smith, Paul G. 322
Smith, Richard C. 130
Smith, Sam C. 364
Smith, William A. 245
Smoke detector 256
Smoke ring gun 128
Smoking device 288
Smudge, Heated 325
Smyth, Henry DeWolf 154
Smythe, Carl V. 2
Snakes from Korea 178
Snell, George D. 137, 195
Sniperscope 251
Snow, Radioactive 110
Sobel, Albert E. 245
Sockets, Dust-Proof 63
Soil 105, 159, 215
Solar outbursts 95
Sommer, L. H. 184
Sondheimer, Franz 283
Sonic Device 408
Sorter, Electronic 393
Sound warning for blind 89
Southern industry 249
Space, Interstellar 405
Spear gun 384
Speech machine 23
Speirs, Robert S. 380
Spencer, Dana R. 118
Spice 314
Spilhaus, Athelstan F. 141
Spiny lobsters 197
Spirit duplicator 160
Spittler, W. A. 103
Spitzer, Lyman, Jr. 54, 402
Spleen banks 254
Split-Winding 325
Sporn, Philip 70
Sports timer 208
Sprayer, All-purpose 240
Spring colds 232
Spring flowers 125
Spring plowing odor 179
Spruce budworm 258
Sprunt, Douglas H. 281
Stack, John M. 387
Stafford, Edward S. 391
Stakman, Elvin C. 3, 5, 277
Stansbury, Carroll 78
Star 115, 195, 306, 323, 370
Stare, F. J. 300
Starkey, Robert L. 90
Stars 57, 58, 122, 202, 266, 330, 402, 406, 407
Static electricity 277
Statt, Ken, Jr. 406
Steam cleaner and flusher 48
Steel, Low-carbon 136
Steering wheel, Heated 32
Steigmann, Frederick 296
Steiner, Alfred 371
Steiner, Paul E. 297
Steinfeld, Julius I. 66
Stenburg, R. L. 40
Sterilization for cancer 12
Steroid, Synthetic 283
Stern, Emery J. 118
Stern, Karl 313
Stern, Robert L. 51
Stewart, James B. 134
Stewart, Marcus J. 137
Stewart, T. D. 243
Stick-on label 288
Stirling, Marion 359
Stirling, Matthew W. 359
Stirrer 320
Stirton, R. A. 380
Stoa, Karl Fr. 151
Stomach 25, 230
Stone Age Farmers 276
Stoneflies 13
Stone pick-up 347
Storms 201
Stout, Glenn E. 268
Stove, Smokeless 329
Strain 231, 339
Strauss, Lewis L. 183
Straw 153
Strawberries 253
Strecker, Edward A. 397
Streeter, John 260
Streptodornase 156, 281, 391
Streptokinase 156, 281, 391
Streptomycin 90, 322
Strott, Adolph 105
Struggling helps survival 152
Studer, Frank J. 393
Study abroad 61
Struve, Otto 286
Submarine 169
Submarine diet 307
Success factors 201
Suen, T. J. 238
Sulfur 24
Sun 21, 46, 54, 196, 262, 284
Sun lamp 63
Sun Spot 321, 335
Sullivan, J. D. 380
Sullivan, Maurice 397
Suns 227
Sunset 377
Superconductors 71
Supernova 101
Supersonic flight 85, 87, 356
Supersonic research 342
Surgical drapes 208
Survival secrets 188
Sutherland, Edwin H. 104
Sverdrup, Arne 151
Swamp reclaimed 168
Swartz, Irene B. 175
Sweeny, K. H. 245
Sweet Potatoes 72
Swimming 392
Swine erysipelas 232
Switch, Delayed Action 352
Switcher, Trackmobile 51
Symeonidis, Alexander 286
Symington, Stuart 246
Syphilis 265
Syverton, Jerome T. 296, 364

TV antennas 345
Tabor, C. 28
Taconite 185
Tadpole nerve action 200
Talbott, John H. 393
Talk cutting device 204
Tank, Gertrude 152
Tanks 295
Taub, David 283
Taylor, Lauriston, S. 110
Taylor, Robert D. 370
Tebrock, H. E. 299
Teeth 217
Teeth, Green 152
Tehon, L. R. 72
Telephone attachment 73
Telephone equipment 240
Telephone finder 384
Telescope, Palomar 278
Television 103, 118, 168, 200, 336
Television eyeglasses 32
Television navigation 270
Television Screen 393
Telfer, William H. 14
Tepexpan Man 83
Terrain appearance 119
Tesche, Fred R. 263
Texas nighthawk 198
Thalia 149
Theisen, Floyd 245
Thermometer 63, 390, 399
Thewlis, Malford W. 376
Thickness testing 344
Thilo, G. P. 214
Thimble, Needle-grip 176
Thomas, George E. 371
Thompson, Floyd I. 342
Thompson, George G. 376
Thorn, George 189, 339
Thorp, Clark E. 242
Thorp, James 28
Thrombin 388
Thunderjet 65, 71
Thygeson, Phillips 290
Thyroid cancer 201
Thyroid, Iodine-less 312
Ticks 335
Tifft, William 406
Tillett, William S. 391
Timber, Harvested 167
Timme, Arthur R. 242
Tire vulcanizing 126
Tischer, R. G. 355
Tishler, Max 3
Titanium 98, 381
Titanium alloys 349
Toaster, Pop-down 384
Tobacco 89
Tobacco mosaic 329
Tobacco Pouch 400
Tobias, James B. 40
Toecap, Metal 128
Tolson, William A. 25
Tomatidine 147
Tomato 249
Tomato mildew blight 40
Tompsett, R. 130
Toole, E. H. 186
Tooth banks 201
Tooth decay 91
Tooth snatching 375
Toothbrush, Electric 48
Topping, Norman H. 27
Tordella, C. L. 104
Tortilla flour, Dehydrated 54
Touroff, Arthur S. W. 205
Towhee 270
Transfusions, Plant 322
Transports, Jet 392
Traut, Herbert F. 9, 297

Index continued on p. 407

ASTRONOMY

Scorpion Moves Across Sky

Venus and Saturn also shine on July evenings. Characteristic constellations of the summer nights are easily spotted in the southern sky.

By JAMES STOKLEY

▶ WITH THE coming of July, the characteristic constellations of the summer evening appear in the southern skies. The most conspicuous of these is Scorpius, the scorpion, which is directly south, as shown on the accompanying maps. These are drawn to show how the skies appear at about 10:00 p.m., your own kind of standard time (or 11:00 p. m. for daylight saving time), at the beginning of July, and an hour earlier in the middle.

Scorpius is easy to recognize because of the curved line of stars to the left that form the animal's tail, while the star Antares, distinctly red in color, is supposed to represent its heart. To the right of this group we find Libra, the scales, and then Virgo, the virgin, in which the bright star Spica appears. Farther west, in the same figure, is the planet Saturn.

Continuing still farther west, we come to Leo, the lion, present location of Venus, brightest of all the planets. Regulus, the most brilliant star in this group, is not shown on the maps because it has set by the time for which they are prepared. However, it can be seen earlier in the evening. On July 5, Venus passes quite close to this star.

To the left of the scorpion is Sagittarius, the archer, in which the stars form an easily recognized teapot. The spout of the pot is towards the right, and the handle to the left. Some of these stars also form a little dipper, known as the "milk dipper," doubtless because it stands in the brightest part of the Milky Way. The four stars that make the handle of the teapot outline the bowl of the dipper. Its handle extends upward to the right, in two of the stars forming the teapot's lid.

Directly above Sagittarius and Scorpius is a large constellation which contains no first magnitude stars. This was shown on the old star maps as a man holding a serpent. The reptile is represented by the constellation of Serpens, part of which is on each side of Ophiuchus. Serpens is the only constellation in the sky divided into two parts. The serpent's head is to the right and the tail to the left, toward the stars of Aquila, the eagle.

Aquila contains the bright star Altair. Moving upwards, we come to Lyra, the lyre, with Vega, which is the brightest star seen these summer evenings. Of course it is not nearly as bright as the planet Venus, or Jupiter, which comes up later. Below Vega, toward the northeastern horizon, is Cygnus, the swan, with the star called Deneb.

Toward the northwest we see the Great Dipper, the bowl downwards. At the bottom are Merak and Dubhe, the so-called pointers, whose direction, to the right, shows Polaris, the pole star. This is in the little dipper at the end of the handle, which now points downwards.

Following the curve of the handle of the Great Dipper we come in the south to Arcturus, in Bootes, the bear-driver. This is the last of the stars of the first magnitude to be seen these evenings.

As for the other planets, Jupiter comes up around midnight, in the constellation of Pisces, the fishes. It is about a sixth as bright as Venus, though about seven and a half times the brilliance of Vega. By the end of July Jupiter will appear about three hours after the sun sets.

Mars and Mercury are not easily visible in July. Though the former is in the east just before sunrise, and the latter in the west just after sunset, both are so low that

Index, continued

Tree, Hershel G. 297
Triethanolamine trinitrate 296
Trout 348
Trulson, M. 300
Tube, Miniature 96
Tube, Self-Sealing 56
Tube tester 80
Tuberculosis 130, 175, 332, 334, 341, 391
Tucker, Howard J. 242
Tucker, Paul 295
Tularemia 25
Tulip Tree 300
Tullner, William W. 380
Tumors 137, 182
Tungsten 248
Turbojet engine 391
Turboliner 37, 209, 219
Turner, K. B. 258
Turner, T. C. 345, 387
Truman, President 145, 149
Trytten, M. H. 205, 235, 366
Tyler, Paul M. 114
Type cleaner 288
Typhus 105
Typing ribbon re-inked 262

UNIVAC 389
Ultrasonic wave pictures 103
Ultraviolet antidote 244
Underwater valley 88
Universe 194, 403, 411

VHF Receivers 57
Vacuum 152
Vacuum Bottle, Improved 247
Van Arx, William 139
Van Biesbroeck, G. 409
van de Kamp, Peter 115
Vanderboom, Katherine 364
Van der Kloot, William 14
van Overbeek, Johannes 43
Vansell, George H. 136
Vehicle speed counter 213
Vent tube 224
Vermiculite filling 272
Veterinary Medicine 4
Viability 180
Viomycin 130
Virchow, Rudolph 69
Viruses, Helpful 165
Visher, Stephen S. 201
Vitamin, New 124, 262
Vitamin A manufacture 200
Vitamin C 51, 72
Vitamins 167
Voice recorder 368
Voitle, Dorothy 283
Vonderlehr, R. A. 120
von Neumann, John 106, 183
Vonnegut, Bernard 182, 269
Vroom, A. H. 24

Wace, Alan J. B. 276
Wagner, Donald J. 172
Waksman, S. A. 46, 179, 355
Wainer, Amos S. 387
Walford, Lionel A. 26
Walker, Eric A. 5, 130
Walkie-Talkie, Small 205
Wallace, Graham 339
Wallace, H. D. 206
Wallace, P. C. 214
Wallace, Robert L., Jr. 408
Wallach, Irving D. 365
Wallboard, interior 352
Wallets, Vinylite 192
Walters, H. J. 50
Wapner, S. 223
War 333
Warburg, Otto 99
Warburton, Ray W. 392
Ward, A. H. 269
Ward, H. C., Jr. 325
Warne, William E. 182
Warning, Low Underpass 338
Wase, Arthur W. 297
Washbasin 320
Washing machine 412
Waste, Oil 313
Water 322
Water, Fresh from sea 168
Water-cloud pickup 89
Water-Flow table 85, 87
Water gas 264
Water needs 73
Water pollution 126
Water protection 296
Water purification 117, 302
Water resources 6
Water re-use 211
Waterless season 212
Waterman, Alan T. 181
Watson, Virginia 34
Watts, H. M. 88
Watts, Lyle F. 71
Wave, Third earthquake 72
Wax from lignite 102
Weather 50, 87, 125, 153, 189, 220, 323
Weather control 198
Weed control 43
Weedkillers 56
Weed seed viability 34
Weeds 104
Weiner, Richard 247
Weinstock, B. 219
Weiss, Allen 296
Weiss, David 355
Weiss, H. G. 30
Weiss, Molly A. 364
Wellington, W. G. 258
Wender, Irving 136
Wendler, Norman L. 3
Went, F. W. 34
Werner, C. A. 130
Werner, H. 223
Werthessen, N. T. 197
Westall, R. G. 249
Wetmore, Alexander 46, 277
Weyl, Hermann 183
Wexler, Aaron 247
Wexler, Milton 319
Wheat Stem Rust 3, 245
Wheeler, Douglas E. 37
Whipple, Fred L. 339
White, Donald R. 21
White, Gilbert F. 6
White, Wayne E. 264
Whitelaw, M. James 40
Whistling jar 190
Whitney, Leon F. 251
Whitzel, Raymond T. 206
Wichelhausen, Ruth H. 373
Wiebe, Richard 252
Wiener, Alexander S. 248
Wiener, Norbert 106
Wiggers, Harold C. 249
Wild greens 254
Wildcats 380
Wildlife survives fire 147
Wile, Udo J. 265
Williams, C. B. 377
Williams, Carroll M. 14
Williams, Ferd E. 393
Williams, Guy H. Jr. 242
Williams, Gwendolyn M. 313
Williams, Howel 296
Williams, J. H. 374
Williams, Jonathan M. 278
Williams, Roger J. 6
Wilson, Charles E. 50, 118
Wilson, J. F. 87
Wilson, May G. 51
Wind tunnel 164, 337, 342
Windle, W. F. 199
Windpipe 329
Windshield hood 208
Wingate, David B. 139
Winkler, C. A. 24
Winnek, Douglas F. 159
Winternitz, M. C. 105
Winzler, Richard J. 268
Witschi, Emil 297
Wittson, Cecil L. 244
Wives Older 290
Wobble stoppers 412
Wolf, Stewart 25
Wolf 184
Wolff, George 169
Wolfson, M. I. 331
Wolgamot, John R. 46
Wolves 153
Wood, J. W. 40
Wood, John R. 262
Wood alcohol 136
Wood drying process 216
Woodbury, Robert L. 72
Woodcock, Alfred H. 116
Woodward, Edward R. 392
Woodward, Robert B. 282
Worry localized 263
Wounded, Diet for 343
Wragg, L. E. 380
Wrapping, Meat 192
Wright, F. H. 325
Wright, Fred E. 277
Wright, G. R. 260
Wright, Irving S. 381
Wright, Quincy 268
Wright, T. P. 220
Writing case 224
Writing guide 32
Wyngaarden, J. B. 95

X-4 research airplane 151
XF4D 121
X-Rays, Fast 165
Xenon 215

Yagi, Kenzo 278
Yakovlev, Paul I. 265
Yale Radiocarbon Laboratory 56
Yellow Jackets 349
Yo-Yo 320, 351
Young, A. H. 393

Zabarenko, Ralph N. 233
Zappasodi, Peter 175
Zenczak, Piotr 243
Zirconium 55
Ziskind, Eugene 390
ZoBell, Claude E. 350
Zubin, Joseph 328
Zwicky, Fritz 194